

MAGNE-HEAD

DATA BULLETIN



DBW SERIES

DIGITAL MAGNETIC TAPE HEADS

FEATURES:

- **TRACKS:** Any format to 32 tracks per inch.
- **UNIFORMITY:** Track to track ± 1 db.
- **GAP-to-GAP SPACING:** Read-to-write gaps as close as .150 inches.
- **GAP-to-GAP PARALLELISM:** to within
- 100 microinches standard. Less than 100 microinches on request.
- **MOUNTING:** Any physical and mounting configuration.
- **DESIGNED:** To meet all applicable military specifications.

The Magne-Head DBW Series is a family of digital read-after-write magnetic heads. The photograph above shows the industry standard 7 track head built to I.R.I.G. mechanical specifications. Other available track configurations range from 1 to 16 tracks per $\frac{1}{2}$ inch.

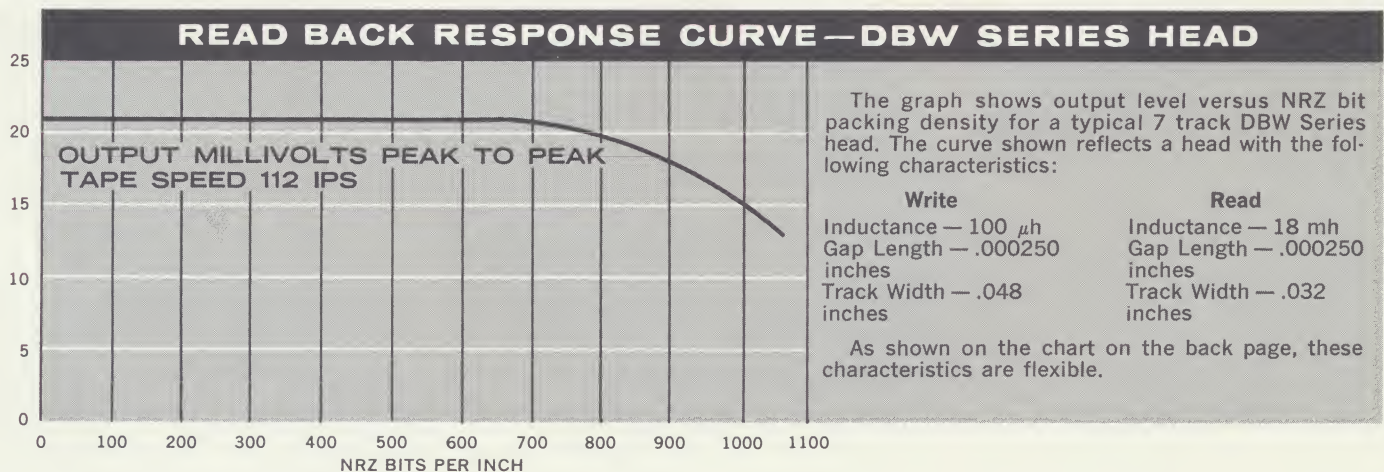
DBW Series heads are uniform from head to head as well as from track to track. Quality Control conforming to rigorous MIL-Q-9858 standards



DBW-7 7 track read-after-write digital tape head

assures this uniformity—essential for quantity production.

Magne-Head also furnishes base plates and tape guides if desired, married to the head within optically controlled tolerances. (Azimuth deviation as low as $\pm \frac{1}{3}$ minute.) Flush face head construction coupled with spring loaded, surface hardened tape guides extends tape life and assures stability of head characteristics—through years of operation.





DIGITAL MAGNETIC TAPE HEADS

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- **TRACKS:** Any format to 32 tracks per inch.
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- **DESIGNED:** To meet all applicable military specifications.

The Magne-Head DEW Series is a family of digital read-after-write magnetic heads. The photograph above shows the industry standard 16 track head built to I.R.I.G. mechanical specifications. Other available track configurations range from 6 to 32 tracks per inch.

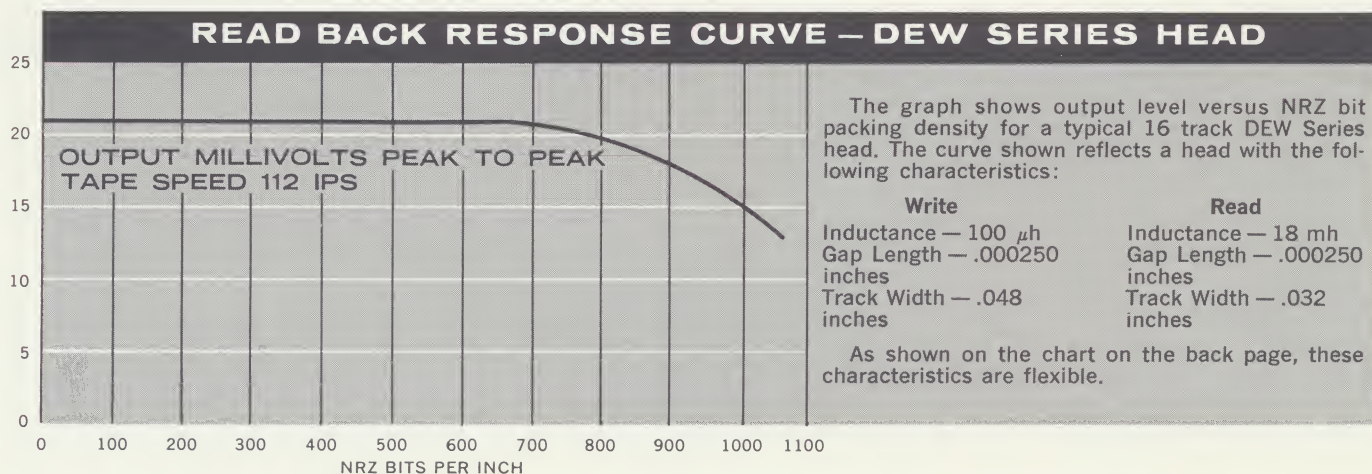
DEW Series heads are uniform from head to head as well as from track to track. Quality Control conforming to rigorous MIL-Q-9858 standards



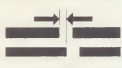
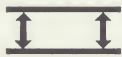
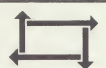
DEW-16 16 track read-after-write digital tape head

assures this uniformity—essential for quantity production.

Magne-Head also furnishes base plates and tape guides if desired, married to the head within optically controlled tolerances. (Azimuth deviation as low as $\pm \frac{1}{2}$ minute.) Flush face head construction coupled with spring loaded, surface hardened tape guides extends tape life and assures stability of head characteristics—through years of operation.



SPECIFICATIONS

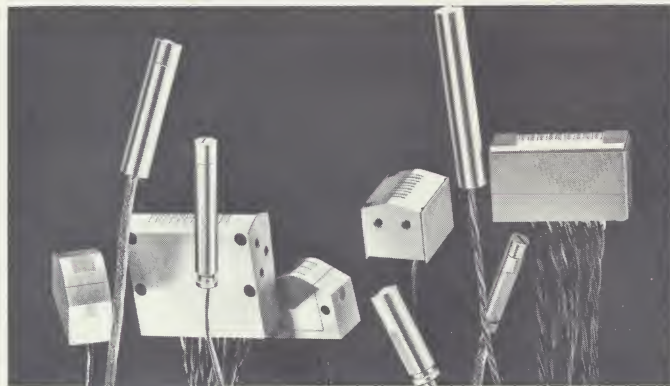
DEW SERIES TRACKS PER INCH		6	8	10	12	14	16	18	20
TRACK WIDTH MAXIMUM INCHES	WRITE	.125	.090	.070	.060	.048	.042	.032	.026
	READ	.100	.074	.054	.044	.032	.026	.020	.018
INDUCTANCE MAXIMUM — MILLIHENRIES	READ	500	400	300	200	150	100	90	80
CROSS TALK MAXIMUM — db	READ TO READ	-70	-60	-55	-50	-45	-43	-42	-41
CROSS TALK MAXIMUM — db	WRITE TO READ .390 GAP TO GAP	-50	-50	-50	-50	-50	-50	-50	-50
READ TO WRITE GAP SPACING		 .150 INCHES MINIMUM							
GAP LENGTH		 20 MICROINCHES MINIMUM							
RADIUS		 .125 INCHES MINIMUM RECOMMENDED FOR REASONABLE HEAD WEAR							
GAP SCATTER		 ±50 MICROINCHES — STANDARD ±25 MICROINCHES — AVAILABLE							
AZIMUTH		 ±1 MINUTE — STANDARD ±½ MINUTE — AVAILABLE							
PARALLELISM	READ TO WRITE GAP	 100 MICROINCHES PER INCH							
MOUNTING		 ANY							

DEW SERIES DIGITAL MAGNETIC TAPE HEADS

Magne-Head is an industry leader in the design and manufacture of magnetic heads for all types of commercial and military applications. Continuing research enables Magne-Head to offer ideas and improvements in both performance standards and packaging design. Our engineers are available to work with you on any magnetic head problem—large or small—from prototype to production. Magne-Head has demonstrated capabilities in

design and production for such applications as a satellite-borne telemetry tape recorder, 56-channel in line read-after-write head for magnetic card random access computer memory, shipboard tactical data processing systems, aircraft audio pilot warning device, tape memory for stock exchange quotation device, and heads to operate in radio-active environments.

FOR THE FULL STORY: write or call Magne-Head—area code 213—772-2351/TWX 910-325-6203



- DRUM
- DISC
- DIGITAL TAPE
- ANALOG TAPE
- CHARACTER RECOGNITION
- MAGNETIC CARDS